

## *Abstract of the Invention*

A reservation system and methodology ensures that all changes to a database in a federation are reliably and immediately communicated to all of the other databases in the federation. The system communicates information concerning hotel reservation transactions. The system comprises multiple applications each associated with one or more databases including hotel reservation data. The databases in the federation reflect transactions that are communicated to other databases and they also employ information received from other databases in determining the transactions that their associated local applications permit and the way in which they are processed. In one embodiment of the invention, communication among databases occurs through the Internet and data storage devices via secure packetized messages addressed to objects that represent the relevant databases. The system of the present invention also preferably includes a central database that functions as the primary source for verifying reservations and hotel data. Additionally, the system of the present invention also includes a yield subsystem that allows hotels to increase revenues. The yield subsystem calculates rates and availability based upon forecasted changes in supply and customer segment demand.